

## CURRICULUM VITAE

**Dr. Susheela Rani**

**Assistant Professor (Ad hoc)**

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**Punjabi University, Patiala**

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### **Teaching Experience:**

- Joined as Assistant Prof. in Department of Chemistry, Punjabi University Patiala on 13th April, 2011.
- 12 years of teaching experience to post graduation classes and 3 years of experience to Undergraduation classes.

### **Research Experience:**

Worked as Project Fellow of UGC (University Grant Commission) in the Department of Chemistry, Punjabi University Patiala on the project entitled **“Development of Preconcentration Methods for Drugs and their Analysis by HPLC-UV Methods”**

### **Research Thrust Area:**

- Analysis of drugs and pesticides using different preconcentration techniques and chromatography.
- Synthesis of new adsorbing materials for different organic compounds and metal ions using nano particles and their applications for the analysis of environmental and biological samples

### **List of publications:**

1. Quantification of Tricyclic and Nontricyclic Antidepressants in Spiked Plasma and Urine Samples Using Microextraction in Packed Syringe and Analysis by LC and GC-MS  
**Chromatographia** (2011) 74, 235-242, **Impact Factor: 2.044**  
**Susheela Rani**, Ashwini Kumar, Ashok Kumar Malik, Baldev Singh  
Electronic ISSN: 1612-1112 Print ISSN: 0009-5893

2. Occurrence of *N*-Acyl Homoserine Lactones in Extracts of Bacterial Strain of *Pseudomonas aeruginosa* and in Sputum Sample Evaluated by Gas Chromatography-Mass Spectrometry  
**American Journal of Analytical Chemistry** (2011) 2, 294-302, **Impact Factor: 1.87**  
**Susheela Rani**, Ashwini Kumar, Ashok Kumar Malik, Philippe Schmitt-Kopplin  
**ISSN Print: 2156-8251 ISSN Online: 2156-8278**
  
3. Liquid Chromatographic Determination of Quinolones in Water and Human Urine Samples after Microextraction by Packed Sorbent  
**Journal of AOAC International** (2012) 95 (1), 261-67, **Impact Factor: 2.028**  
**Susheela Rani**, Ashwini Kumar, Ashok Kumar Malik, and Baldev Singh  
**ISSN · 1060-3271 (print) 1944-7922 (web)**
  
4. Novel Micro-Extraction by Packed Sorbent Procedure for the Liquid Chromatographic Analysis of Antiepileptic Drugs in Human Plasma and Urine  
**Journal of Separation Science** (2012) 35(3), 359-66. **Impact Factor: 3.645**  
**Susheela Rani**, Ashok Kumar Malik, Baldev Singh  
**ISSN: 1615-9314**
  
5. A Novel Micro-Extraction by Packed Sorbent-Gas Chromatography Procedure for the Simultaneous Analysis of Antiepileptic Drugs in Human Plasma and Urine  
**Journal of Separation Science** ( 2012) 35(21), 2970-77. **Impact Factor: 3.645**  
**Susheela Rani**, Ashok Kumar Malik  
**ISSN: 1615-9314**
  
6. Microextraction by Packed Sorbent–High-Pressure Liquid Chromatographic–Ultra Violet Analysis of Endocrine Disruptor Pesticides in Various Matrices  
Manpreet Kaur, **Susheela Rani**, Ashok Kumar Malik\* and Jatinder Singh Aulakh  
**Journal of Chromatographic Science** (2014) 52(9), 977-84. **Impact Factor: 1.026**  
Online **ISSN** 1945-239X; Print **ISSN** 0021-9665
  
7. Determination of endosulfan isomers and their metabolites in tap water and commercial samples using microextraction by packed sorbent and GC–MS  
Ramandeep Kaur, **Susheela Rani**, Ashok Kumar Malik, Jatinder Singh Aulakh  
**Journal of Separation Science. 2014, 37(8), 966-73. Impact Factor: 3.645**  
**ISSN: 1615-9314**

8. Development of a Rapid and Sensitive Method for the Determination of Aluminum by Reverse-Phase High-Performance Liquid Chromatography Using a Fluorescence detector  
Heena, Rajesh Kumar, **Susheela Rani** and Ashok Kumar Malik\*  
**Journal of Chromatographic Science** 2015, 53 (5): 800-806, **Imapct Factor: 1.026**  
Online **ISSN** 1945-239X; Print **ISSN** 0021-9665
9. A Review for the Analysis of antidepressant, antiepileptic and quinolone type drugs in Pharmaceuticals and Environmental samples  
**Susheela Rani**, Ashok Kumar Malik, HeenaRekhi, Ramandeep Kaur, Ripneel Kaur  
Critical Reviews in Analytical Chemistry, 2016, 46 (5) 424-442, **Impact Factor: 6.535**  
**ISSN: 1547-6510 (Web) ISSN: 1040- 8347**
10. Simple and rapid determination of phthalates using microextraction by packed sorbent and gas chromatography with mass spectrometry quantification in cold drink and cosmetic samples  
Ramandeep Kaur, Heena, Ripneel Kaur, **Susheela Rani**, Ashok Kumar Malik  
**Journal of Separation Science** 2016, 39(5), 923-931, **Impact Factor: 3.645**  
**ISSN: 1615-9314**
11. Speciation of Cr (III) and Cr (VI) Ions via Fabric Phase Sorptive Extraction for their Quantification via HPLC with UV Detection  
Heena, Gaurav, **Susheela Rani**, Ashok Kumar Malik, Abuzar Kabir and Kenneth G Furton  
Journal of Chromatography & SeparationTechniques, 2016, 7(3), 1-6, **Impact Factor: 4.83**  
**ISSN: 2577-218X**
12. Determination of cobalt(II), nickel(II) and palladium(II) Ions *via* fabric phase sorptive extraction in combination with high-performance liquid chromatography-UV detection  
Heena, Ramandeep kaur, **Susheela Rani**, Ashok Kumar Malik, Abuzar Kabir, Kenneth G. Furton  
Separation Science and Technology, (2017) 52(1), 81-90, **Imapct Factor: 2.475**  
**ISSN: 1520- 5754**
13. A Review on Recent Applications of High-Performance Liquid Chromatography in Metal Determination and Speciation Analysis  
Heena Rekhi, **Susheela Rani**, Neha Sharma & Ashok Kumar Malik  
Critical Reviews in Analytical Chemistry, 2017, 47 (6), 524-537, **Impact Factor: 6.535**  
**ISSN: 1547-6510 (Web) ISSN: 1040- 8347**

14. Direct Rapid Determination of Trace Aluminum in Various Water Samples with Quercetin by Reverse Phase High-Performance Liquid Chromatography Based on Fabric Phase Sorptive Extraction Technique  
Heena Rekhi, Ramandeep kaur, **Susheela Rani**, Ashok Kumar Malik, Abuzar Kabir, Kenneth G. Furton  
**Journal of Chromatographic Science** 2018, 56(5) 452-460, **Impact Factor: 1.618**  
Online **ISSN** 1945-239X; Print **ISSN** 0021-9665
15. Development of microextraction by packed sorbent with gas chromatography-mass spectrometry method for quantification of nitroexplosives in aqueous and fluidic biological samples  
Pooja Bansal, Gaurav Dinghra, Nidhi Dhingra, **Susheela Rani**, Ashok Kumar Malik  
**Journal of Separation Science** 2018, 41(3) 639-647. **3.645**  
**ISSN: 1615-9314**
16. Application of fabric phase sorptive extraction with gas chromatography and mass spectrometry for the determination of organophosphorus pesticides in selected vegetable samples  
Ramandeep Kaur, Ripneel Kaur, **Susheela Rani**, Ashok Kumar Malik, Abuzar Kabir, Kenneth G. Furton  
**Journal of Separation Science** (2019) 42(4), 862-870. **3.645**  
**ISSN: 1615-9314**
17. Rapid Monitoring of Organochlorine Pesticide Residues in Various Fruit Juices and Water Samples Using Fabric Phase Sorptive Extraction and Gas Chromatography-Mass Spectrometry  
  
Ramandeep Kaur , Ripneel Kaur, **Susheela Rani** , Ashok Kumar Malik, Abuzar Kabir , Kenneth G. Furton, Victoria F. Samanidou  
  
**Molecules** (2019) 24, 1013, Impact Factor: **4.927**  
  
ISSN 1420-3049
18. Fabric phase sorptive extraction/GC-MS method for rapid determination of broad polarity spectrum multi-class emerging pollutants in various aqueous samples  
Ramandeep Kaur, Ripneel Kaur, Aman Grover, Susheela Rani, Ashok Kumar Malik, Abuzar Kabir, Kenneth G. Furton  
**Journal of Separation Science** (2019), 42(14):2407-2417 Impact Factor **3.645**

ISSN: 1615-9314

19. Molecularly Imprinted Polymers-Solid Phase Extraction Coupled With HPLC-FLD for the Analysis of Four Fluoroquinolones in Honey and Urine  
Ripneel Kaur, Ramandeep Kaur, Susheela Rani, Ashok Kumar Malik\*  
Journal of Pharmaceutical, Chemical and Biological Sciences, (2018) 6(2) 60-69 **Impact Factor: 0.88** ISSN 2348-7658
20. Mobil catalytic material number 41 modified magnetite nano-composites for efficient extraction of non-steroidal anti-inflammatory drugs from tap water and urine samples  
Sandeep Kumar, Shikha Bhogal, Promila Sharma, Susheela Rani, Jatinder Singh Aulakh, Ashok Kumar Malik

**Separation Science plus** (2022) 5(8), (357-367) Impact Factor: **2.67**

ISSN 2573-1815

**Chapter contributed:**

**Contributed one chapter in :Antidepressants: Pharmacology, Health Effects and Controversy'** to the book titled '**Antidepressants: Pharmacology, Health Effects and Controversy'**, edited by Louis J. Migne and Jason W. Post , Nova Science Publishers, USA, 2012. ISBN: 978-58829-539-2

**Conference Proceeding:**

Chemistry For a Better Tomorrow: Current Trends and Challenges, March 08, 2014, Mata Gujri College, Sri Fatehgarh Sahib, Punjab

A mini review on role of chromatographic techniques for the analysis of toxic substances in the environment

*Ramandeep Kaur, Heena, Susheela Rani, Ashok Kumar Malik*

**National Conferences Attended:**

1. National Seminar on Recent Trends in Chemistry (NSRTC-09), Jan 21-22, 2009  
Punjabi University Patiala.
2. National Symposium on Emerging Trends in Chemical analysis & synthesis [ETCAS-09], March 12-13, 2009, Department of Chemistry, SLIET (Longowal), Punjab.

3. National Symposium on Emerging Trends in Chemistry (NSETC-10), Feb 15-16 , 2010, Department of Chemistry, Punjabi University Patiala.
4. National Seminar on Recent Advances in Chemistry and their impact on Environment (NSRACE-11), PS-34, February 15-16, 2011, Department of Chemistry, Punjabi University, Patiala.
5. 6<sup>th</sup> National conference on Thermodynamics of chemical and Biological Systems (NCTCBS-2011), November 2-4, Department of chemistry, Maharshi dayanand University, Rohtak, Haryana.
6. 4<sup>th</sup> National Seminar on Chemistry: An Inter Disciplinary Science, February 15-16, 2012, Department of Chemistry, Punjabi University, Patiala.
7. National Seminar on Toxic Trails of Punjab, March 01-02, 2012, A. S. College, Khanna, Punjab.
8. UGC sponsored National Seminar on Drug Delivery & Pharmacovigilance, October 18, 2012, Department of pharmaceutical sciences and Drug Research, Punjabi University, Patiala.
9. 6<sup>th</sup> National Seminar on New Paradigm in Chemical Sciences -2014, Feb 13, 2014, Department of Chemistry, Punjabi University, Patiala.
10. National Seminar on Chemistry for a Better Tomorrow: Current Trends and Challenges, March 08, 2014, Mata Gujri College, Sri Fatehgarh Sahib, Punjab.
11. UGC Sponsored National Seminar: Emerging Paradigm in Pharmaceutical Sciences, 26<sup>th</sup> March, 2014, Department of pharmaceutical sciences and Drug Research, Punjabi University, Patiala.
12. 7<sup>th</sup> National Seminar on Synergistic Aspects of chemical and Other sciences-2015, Department of Chemistry, Punjabi University, Patiala.
13. New Paradigm in Chemical Sciences: Synthetic and Analytical Perspective-2016, Feb. 4-5, 2016, Department of Chemistry, Punjabi University, Patiala.
14. New Paradigm in Chemical Sciences: Synthetic and Analytical Perspective-2017, Feb. 9-10, 2017, Department of Chemistry, Punjabi University, Patiala.

15. Chemical and Environmental Sciences: Innovations and advances-2018, February 15-16, 2018, Department of Chemistry, Punjabi University, Patiala.
16. National Seminar on Recent Trends in Chemical and Environmental sciences-2019, February 7-8, 2019, Department of Chemistry, Punjabi University, Patiala.
17. Chemical and Environmental sciences: Advanced innovations-2020, February 19-20, 2020, Department of Chemistry, Punjabi University, Patiala.
18. Conference on Recent Advances in Chemistry-2023 (CRAC-2023) February 23-24, 2023, Department of Chemistry, Punjabi University, Patiala.

**National Conferences Chaired:**

1. Acted as chairperson in a session in 4<sup>th</sup> National Seminar on Chemistry : An Inter Disciplinary Science, February 15-16, 2012, Department of Chemistry, Punjabi University, Patiala
2. Acted as Co-chairperson in a session in 6<sup>th</sup> National Seminar on New Paradigm in Chemical Sciences -2014, Feb 13, 2014, Department of Chemistry, Punjabi University, Patiala
3. Acted as Co-chairperson in a session in 7<sup>th</sup> National Seminar on Synergistic Aspects of chemical and Other sciences-2015, Department of Chemistry, Punjabi University, Patiala
4. Acted as Co-chairperson in a session in 8<sup>th</sup> National Seminar on Synergistic Aspects of chemical and Other sciences-2016, Department of Chemistry, Punjabi University, Patiala
5. Acted as Co-chairperson in a session in 9<sup>th</sup> National Seminar on Synergistic Aspects of chemical and Other sciences-2017, Department of Chemistry, Punjabi University, Patiala
6. Acted as Co-chairperson in a session in 10<sup>th</sup> National Seminar on Synergistic Aspects of chemical and Other sciences-2018, Department of Chemistry, Punjabi University, Patiala

7. Acted as Co-chairperson in a session in 11<sup>th</sup> National Seminar on Recent Trends in Chemical and Environmental sciences-2019, Department of Chemistry, Punjabi University, Patiala.
- 8 Acted as Co-chairperson in a session in 12<sup>th</sup> National Seminar Chemical and Environmental sciences: Advanced innovations-2020, February 19-20, 2020, Department of Chemistry, Punjabi University, Patiala.
- 9 Acted as Co-chairperson in a session in 13<sup>th</sup> International Conference on Recent Advances in Chemistry-2023, February 23-24, 2023, Department of Chemistry, Punjabi University, Patiala.